Volume 33, January-June 1969

OBSTETRICS and GYNECOLOGY

Journal of the American College of Obstetricians and Gynecologists

S. Leon Israel, M.D., *Philadelphia,* Editor

Ralph A. Reis, M.D., *Chicago,* Emeritus Editor

EDITORIAL BOARD

Clayton T. Beecham, M.D., *Danville, Pa.*

Richard L. Burt, M.D., *Winston-Salem, N. C.*

Charles E. Flowers, Jr., M.D., *Birmingham, Ala.*

Charles A. Hunter, Jr., M.D., *Seattle, Wash.*

John Figgis Jewett, M.D., *Boston, Mass.*

W. C. Keettel, M.D., *Iowa City, Iowa*

Robert A. H. Kinch, M.D., *Montreal, P. Q.*

J. George Moore, M.D., *New York, N. Y.*

Published Monthly by Hoeber Medical Division • Harper & Row, New York

Copyright © 1969 by

THE AMERICAN COLLEGE OF OBSTETRICIANS AND GYNECOLOGISTS

All rights reserved. For information address

HOEBER MEDICAL DIVISION • HARPER & ROW, PUBLISHERS

49 East 33rd Street, New York, N. Y. 10016

Printed in the United States of America

Contents

JANUARY

Galactorrhea-Amenorrhea Syndromes: Postpartum Galactorrhea-Amenorrhea in the Absence of Intracranial Neoplasm
JOEL S. RANKIN, ALVIN F. GOLDFARB, *and* ABRAHAM E. RAKOFF 1

Specific Resorption of the Mouse Fetus
MICHAEL M. LEVI, JOHN MANAHAN, *and* INES MANDL 11

Intrafollicular Ovarian Pregnancy: Management with Ovarian Conservation
ROBERT E. DOUGHERTY *and* A. W. DIDDLE 20

Neonatal Acid-Base Studies: I. Effect of normal labor and obstetric manipulation
RICHARD B. CLARK, JAMES O. COOPER, STACY R. STEPHENS, *and* WILLIS E. BROWN 23

Neonatal Acid-Base Studies: II. Effect of a heavy medication-narcotic antagonist regimen for labor and delivery
RICHARD B. CLARK, JAMES O. COOPER, STACY R. STEPHENS, *and* WILLIS E. BROWN 30

Histologic Types of Squamous-Cell Carcinoma In Situ of the Cervix
D. N. TWEEDDALE *and* J. W. RODDICK, JR. 35

Coincidental Primary Sarcoma and Carcinoma of the Cervix: Report of two cases
WINSTON B. PALEY, GERALD J. PHANEUF, *and* SHELDON C. SOMMERS 41

Oral Glucose Tolerance Test During Pregnancy and the Early Puerperium
RICHARD L. BURT *and* NORMAN H. LEAKE 48

Carcinoma of the Female Urethra
ROBERT E. ROGERS *and* BEAURY BURNS 54

Comparison of Electrocauterization and Cryosurgery for the Treatment of Benign Disease of the Uterine Cervix
DONALD R. OSTERGARD, DUANE E. TOWNSEND, *and* FRANK M. HIROSE 58

Obstetric Hepatosis: Treatment with Cholestyramine and Interim Response to Steroids
EMILY E. LUTZ *and* ALAN J. MARGOLIS 64

Improved Accuracy of Prediction of Severity of Hemolytic Disease of the Newborn
AILEEN F. CONNON 72

Cervical Biopsy and Conization to Detect Cervical Extension of Endometrial Cancer
HARRY K. ZIEL, T. HART BAKER, *and* KATSUMI TAWA 79

Cytogenetic Assessment of Radiosensitivity of Carcinoma of the Uterine Cervix
L. W. COX, MARGARET A. STANLEY, *and* N. D. M. HARVEY 82

Continuous Caudal Analgesia and Anesthesia for Labor and Vaginal Delivery: A review of 4071 confinements
TURHAN S. DOGU 92

Varicella Pneumonia During Pregnancy
DONALD A. MENDELOW *and* GEORGE C. LEWIS, JR. 98

Fetal Immunization as a Consequence of Bacilluria During Pregnancy
EDWARD E. WALLACH, JEROME I. BRODY, *and* FRANK A. OSKI 100

Achalasia and Nutritional Deficiency During Pregnancy
ANTHONY CLEMENDOR, SANFORD SALL, *and* EUGENE HARBILAS 106

Immature Neural Elements (Neuroblastomatous Change) in Benign Cystic Teratoma: Malignant or Not?
HAROLD W. MAYBERGER, ARTHUR S. CARLSON, *and* SHEILA LIM 114

Neuropsychologic Outcome of Children Whose Mothers Had Proteinuria During Pregnancy: A report from the collaborative study of cerebral palsy
ARTHUR L. ROSENBAUM, JOHN A. CHURCHILL, ZEKIN A. SHAKHASHIRI, *and* RICHARD L. MOODY 118

Instrument & Method: Headpiece Clamp for the Peritoneoscope
MARSHALL BENNETT TAYLOR 124

Editorial: Carcinoma In Situ
CLAYTON T. BEECHAM 125

Views and Reviews: Teaching Medical Students Obstetrics and Gynecology
RONALD A. CHEZ *and* DONALD L. HUTCHINSON 127

CONTENTS

After Office Hours: Understanding the Teenager — WILLIAM M. LAMERS JR. 131
Letters 138
Book Reviews 140

FEBRUARY

Dysfunctional Labor: VIII. Relative accuracy of clinical and graphic diagnostic methods — EMANUEL A. FRIEDMAN, KENNETH R. NISWANDER, MARLENE R. SACHTLEBEN, *and* JEAN NEMORE 145
Carbohydrate Metabolism of Choriocarcinoma in Continuous Tissue Culture — ROLAND A. PATTILLO, GEORGE O. GEY, RICHARD F. MATTINGLY, *and* J. DONALD WOODRUFF 153
Plastoid Injection Studies of the Uteroplacental Vascular Relationship in the Human — UWE E. FREESE *and* BARBARA J. MACIOLEK 160
Cervical Biopsy: A screening procedure in patients with incomplete abortion — WILLIAM J. LEDGER *and* CHARLES KALSTONE 170
LDH Isoenzymes in Patients with Uterine Tumors — KRYSTYNA WIDY-KIERSKA *and* IRENEUSZ ROSZKOWSKI 173
Lymphography and Vulvar Carcinoma — MANUEL R. COMAS, CHESTER H. MORRIS, *and* HERVY E. AVERETTE 177
Arterioles and Capillaries of Human Decidua During the First Trimester of Pregnancy — JAROMIR BOUDA 182
Serum Copper Level as an Index of Placental Function — S. FRIEDMAN, C. BAHARY, B. ECKERLING, *and* B. GANS 189
Haemophilus Vaginalis Vaginitis by Inoculation from Culture — B. SUE CRISWELL, CHARLES L. LADWIG, HERMAN L. GARDNER, and C. D. DUKES 195
Contraceptive Effects on the Glycogen Content of Blood and Menstrual Discharge — LEON J. DE MERRE, ELIZABETH B. GILBREATH, *and* B. STANLEY PATTISON 200
Obstetric Problems of the Massively Obese — TERRY A. TRACY *and* GERALD L. MILLER 204
Left Ventricular Aneurysm with Successful Pregnancies — O. O. AKINKUGBE, P.P.S. NYLANDER, *and* O. A. OJO 209
The Effect of Coffee on Glucose Tolerance in Normal and Prediabetic Women — JACK A. GOLDMAN *and* JARDENA OVADIA 214
Biochemical Studies of the Fetus: I. The fetal pH-measuring system — EDWARD H. HON *and* AIDA F. KHAZIN 219
Biochemical Studies of the Fetus: II. Fetal pH and Apgar scores — EDWARD H. HON, A. F. KHAZIN, *and* R. H. PAUL 237
Microorganisms and Amniotic Fluid — HERBERT J. HARWICK, J. BRUCE IUPPA, *and* F. ROBERT FEKETY, JR. 256
Evaluation of Postpartum Breast Engorgement by Thermography — JOSEPH MENCZER *and* BERNARD A. ESKIN 260
Pemphigus Vulgaris: Genital Involvement: Report of two cases — RAYMOND H. KAUFMAN, JAMES M. WATTS, *and* HERMAN L. GARDNER 264
Anencephaly in Three Siblings — ARTHUR C. CHRISTAKOS *and* JOE LEIGH SIMPSON 266
Instrument & Method: An Improved Disposable Amniotic Membrane Hook — C. ALLEN MC KNIGHT 271
Views and Reviews: Oral Contraceptives. Selection of the Proper Pill — RICHARD P. DICKEY *and* CLYDE H. DORR 273
Editorial: Fertility and Contraception After Age Forty — SHERWIN A. KAUFMAN 288
After Office Hours: Brave New World — ALLAN C. BARNES 292
Book Reviews 296

MARCH

Routine Rubella Antibody Titer Determinations in Pregnancy — WILLIAM E. SKINNER 301
Motivation for Obstetric Care — SPRAGUE H. GARDINER 306

CONTENTS

Cell Culture Technics for Cytogenetic Investigation of Human Abortus Material: Analysis of 45 cases and report of 3 specimens with gross chromosomal aberrations — MOYRA SMITH, JOAN MACNAB, *and* M. A. FERGUSON-SMITH 313

Chromosomal Studies in Tumors of Embryonic Origin — D. M. SERR, B. PADEH, S. MASHIACH, *and* R. SHAKI 324

Cytogenetics and the Pathology of Hydatidiform Degeneration — D. H. CARR 333

Hydatidiform Mole: Analysis of 145 patients — CARLOS MACGREGOR, EDUARDO ONTIVEROS C., ELEAZAR VARGAS L., *and* SERGIO VALENZUELA L. 343

Diagnosis of Hydatidiform Mole by Hysterography Through Transabdominal Injection — LUIS SENTIES, ARTURO PERDOMO, *and* ROBERTO LUNA 352

Placental Localization Using Technetium-99m-Labeled Albumin — H. JACOBY, R. N. ARNOT, K. JEYASINGH, H. I. GLASS, *and* J. C. M. BROWNE 358

Natural History of Contraceptive Practice Among Postpartum Loop Acceptors — NICHOLAS H. WRIGHT 361

Dysgerminoma: An analysis of 105 cases — LEON A. ASADOURIAN *and* HERBERT B. TAYLOR 370

Cytogenetic Studies of 32 Infertile Couples — MORTON A. STENCHEVER, M. NEIL MACINTYRE, JANE A. JARVIS, *and* JOANNE M. HEMPEL 380

Effects of Medroxyprogesterone Acetate on Serum Insulin and Growth Hormone Levels in Diabetics and Potential Diabetics — HERBERT GERSHBERG, EDUARDO ZORRILLA, ALFREDO HERNANDEZ, *and* MILDRED HULSE 383

Estriol Excretion in Abnormal Pregnancy — R. F. HEYS, J. S. SCOTT, R. E. OAKEY, *and* S. R. STITCH 390

Improvement Hemagglutination-Inhibition Assay: Clinical Application to Measurement of Human Placental Lactogen — JOHN P. GUSDON, JR. 397

Influence of Placental Weight on Labor — EMANUEL A. FRIEDMAN, *and* MARLENE R. SACHTLEBEN 404

Treatment of Bacteremic Shock: An analysis of 83 patients — E. RAMIREZ-SOTO, J. P. GONZALEZ-LOYA, S. VALENZUELA-LOPEZ, J. DELGADO-URDAPILLETA, *and* L. CASTELAZO-AYALA 409

Newlywed Apareunia — EDWARD A. GRABER, HUGH K. BARBER, *and* JAMES J. O'ROURKE 418

Urethrovesicovaginal Fistula — HENRY C. FALK, *and* M. LEON TANCER 422

Amniotic Fluid Analysis in Erythroblastosis Secondary to Kell Immunization: Report of a case — JOHN P. GUSDON, JR., NORMAN H. LEAKE, *and* KENNETH L. OLIVER 432

Instrument & Method: Simple Removal of Cerclage Suture for Incompetent Cervix — MAURICE J. MEYNIER, JR., *and* M. STEVEN PIVER 435

Editorial: The Obstetric-Gynecologic Residency System in America Today — WILLIAM F. MENGERT 438

Views and Reviews: Graduate Education of the Foreign Physician in Obstetrics and Gynecology in the United States — A. ALBERTO HODARI 443

Letters 448

Book Reviews 451

APRIL

The Schauta Operation — WILLIAM E. CRISP 453

Toward Prophylaxis of Prenatal Infection by Viruses — M. R. HILLEMAN 461

Sharp Conization of the Cervix: Observations of 501 consecutive patients — STEPHEN W. MC CANN, ABE MICKAL, *and* JOSEPH T. CRAPANZANO 470

Cervical Carcinoma: Correlation of Microtome Cryostat, Cytologic, and Histologic Diagnoses — JOHN M. POWELL, FRANCIS S. JONES, R. E. DOUGHERTY, *and* A. W. DIDDLE 476

Weight Gain During Pregnancy and Prepregnancy Weight: Association with birth weight of term gestation — KENNETH R. NISWANDER, JUDITH SINGER, MILTON WESTPHAL, JR., *and* WILLIAM WEISS 482

Relationships of Maternal Amino Acid Blood Levels to Fetal Development — J. A. CHURCHILL, K. S. MOGHISSI, T. N. EVANS, *and* C. FROHMAN 492

CONTENTS

Single-Injection Caudal Anesthesia in Obstetrics
HERBERT M. EPSTEIN *and* DONALD M. SHERLINE 496

Granular-Cell Myoblastoma of the Vulva H. M. RADMAN *and* B. S. BHAGAVAN 501

Growth Hormone Alterations by a Sequential-Type Oral Contraceptive
W. N. SPELLACY, W. C. BUHI, *and* R. P. BENDEL 506

Fetomaternal Exchange of Sodium: II. Effects of drugs and physiochemical factors on transport mechanisms ROBERT G. BRAME, J. H. WHITSIDE, *and* H. S. MC GAUGHEY, JR. 511

Hypernatremia Following Intrauterine Instillation of Hypertonic Saline Solution: Report of a case and discussion THOMAS D. KERENYI 520

Reversibility of the Renal Lesion and Functional Impairment in Preeclampsia Diagnosed by Renal Biopsy HOSSAM E. FADEL, M. S. SABOUR, MAHER MAHRAN, SEIF EL-DIN, *and* M. N. EL-MAHALLAWI 528

Premature Cervical Dilatation and the McDonald Cerclage
SAMUEL G. SMITH *and* WILLIAM H. SCRAGG, JR. 535

Holocardius Acephalus as a Cause of Dystocia: Report of a case
JOHN H. NILES *and* ERNEST W. LOWE 541

Malignant Mixed Müllerian Tumors of the Uterus: A clinicopathologic study of 9 patients E. H. RUFFOLO, N. B. METTS, *and* H. L. SANDERS 544

Volvulus of the Sigmoid Colon Complicating Pregnancy
ERIC S. LAZARO, PHANI B. DAS, *and* P. V. ABRAHAM 553

Secondary Amenorrhea Persisting after Cessation of Narcotic Addiction: Report of a case SHELDON S. STOFFER, DUANE N. TWEEDDALE, *and* JOSEPH D. SAPIRA 558

Editorial: Hysterectomy: Past, Present, and Future RALPH C. WRIGHT 560

Instrument & Method: Diagnostic Staining of Dry Smears for *Trichomonas*
R. C. CAPET *and* P. PAYMENT 564

Views and Reviews: Ovarian Resection in the Stein-Leventhal Syndrome
WILLARD M. ALLEN *and* RALPH B. WOOLF 569

Abstracts: Reports on Current Investigation 575

Letters 596

Book Reviews 600

MAY

Blindness and Menarche LEONA ZACHARIAS *and* RICHARD J. WURTMAN 603

Correlated Investigative Technics of Multiple Anaplasias in the Lower Genital Canal
J. DONALD WOODRUFF, HUGH J. DAVIS, HOWARD J. JONES, JR., ROLANDO G. RECIO, RAHMATULLAH SALIMI, *and* IN-JOO PARK 609

Histochemistry of Mucosubstances and Histology of Mixed Müllerian Pelvic Lymph Node Glandular Inclusions: Evidence for histogenesis by müllerian metaplasia of coelomic epithelium BENJAMIN R. FERGUSON, JAMES L. BENNINGTON, *and* SETH L. HABER 617

Insulin Transfer across the Hemochorial Placenta ROY M. PITKIN *and* W. ANN REYNOLDS 626

Glucose Tolerance During Pregnancy and the Puerperium: A modification with observations on serum immunoreactive insulin
RICHARD L. BURT, NORMAN H. LEAKE, *and* A. LEONARD RHYNE 634

Preterm Delivery of Patients with Decreased Glucose Tolerance
H. ROBERT MISENHIMER *and* D. FRANK KALTREIDER 642

Cytogenetic Analysis of Patients with Developmental Anomalies of the Müllerian Ducts
VINCENT J. CAPRARO *and* MAIMON M. COHEN 647

Testicular Feminization Syndrome: Chromosomal, histologic, and genetic studies in a large kindred MORTON A. STENCHEVER, ALAN B. P. NG, G. H. JONES, *and* JANE A. JARVIS 649

Androgen Studies in Virilism Secondary to an Adrenal Adenoma and to Congenital Adrenal Hyperplasia ROBERT H. OSBORN, MICHAEL E. YANNONE, *and* JAMES T. BRADBURY 658

Androgen Studies in a Patient with Lipoid-Cell Tumor of the Ovary
ROBERT H. OSBORN, JAMES T. BRADBURY, *and* MICHAEL E. YANNONE 666

Gunshot Wound of the Pregnant Uterus: Case report of fetal injury, deglutition of missile, and survival HERBERT J. BUCHSBAUM *and* PHILLIP A. CARUSO 673

CONTENTS

Placenta Previa Accreta: A report of 9 cases
ARIEL OCHSHORN, MENAHEM P. DAVID, *and* NADAV SOFERMAN 677

The SCIPP Line—An Aid in Interpreting the Voiding Lateral Cystourethrogram
LELAND E. NOLL *and* JOHN A. HUTCH 680

Effect of Intravenous Injection of Ergonovine on the Peripheral Vascular System
G. M. GOMBOS, J. G. SCHENKER, *and* M. IRVY 690

Anovular Corpus Luteum in a Woman Taking an Oral Contraceptive
KURT S. LUDWIG *and* MARSHALL HOROWITZ 696

Rubella Hemagglutination-Inhibition Test in an Obstetric Population
STANLEY BURROWS *and* CHARLES BOLLMAN 703

Prevention of Serotonin Abortion in Pregnant Rats by Five Serotonin Antagonists
Y. PFEIFER, E. SADOWSKY, *and* F. G. SULMAN 709

Sympus Apus GEORGE D. MALKASIAN, JR., GEORGE P. SAYRE, *and* JACK L. TITUS 715

Instrument & Method: New Self-Retaining Vaginal Retractor for Use During Pregnancy and after Delivery DOUGLAS BLYTHE SMITH 721

Editorial: Aggressive Toxemia Management (Preeclampsia and Eclampsia)
STANLEY F. ROGERS, CHARLES E. FLOWERS, JR., *and* J. ALAN ALEXANDER 724

Views and Reviews: Induction of Labor by Intra-Amniotic Instillation of Hypertonic Solution for Therapeutic Abortion or Intrauterine Death MORTON A. SCHIFFER 729

Book Reviews 737

JUNE

Chromosome Constitution of Carcinoma of the Endometrium
POH-YUAN TSENG *and* HOWARD W. JONES, JR. 741

Adenocarcinoma of the Cervix JOHN J. MIKUTA *and* JOAN A. CELEBRE 753

Adenoid Cystic Carcinoma of the Uterine Cervix: Report of a case and review of 4 cases
ELIDIA BENITEZ, HECTOR A. RODRIGUEZ, HECTOR RODRIGUEZ-CUEVAS, *and* GÉRMAN BARBOSA-CHÁVEZ 757

Management of Invasive Cervical Cancer Following Inadvertent Simple Hysterectomy
THOMAS H. GREEN, JR., *and* WILLIARD J. MORSE, JR. 763

Cesarean Section for the Second Twin
JOHN H. GERBER, HANSA CHOITHANI, *and* JAMES A. O'LEARY 770

Use of the Omentum to Contain the Intestines in Pelvic Exenteration
GIUSEPPE VALLE *and* GERMANO FERRARIS 772

Dysfunctional Labor: X. Immediate results to infant
EMANUEL A. FRIEDMAN, KENNETH R. NISWANDER, MARLENE R. SACHTLEBEN, *and* NORMA NAFTALY 776

Dysfunctional Labor: XI. Neurologic and developmental effects on surviving infants
EMANUEL A. FRIEDMAN, KENNETH R. NISWANDER, *and* MARLENE SACHTLEBEN 785

Ovarian Function in Patients with Chronic Pelvic Inflammatory Disease
C. P. NOEL MC CARTHY, ADNAN MROUEH, *and* ROBERT H. GLASS 792

Nonhormonal Treatment of the Menopausal Syndrome: A double-blind evaluation of an autonomic system stabilizer THOMAS B. LEBHERZ *and* LOIS FRENCH 795

Insulin and Glucose Studies after One Year of Treatment with a Sequential-Type Oral Contraceptive WILLIAM N. SPELLACY, WILLIAM C. BUHI, *and* RICHARD P. BENDEL 800

Concentration of Total Reducing Substances in Bladder Urine of Human Midpregnancy Fetuses after Glucose Infusion of the Mother J. E. JIRÁSEK and A. COPKOVÁ 805

Diagnostic Dilatation and Curettage: A 20-year survey
THOMAS W. MC ELIN, CHARLES C. BIRD, BILLY D. REEVES, *and* RUSSEL C. SCOTT 807

Radium Treatment of Benign Uterine Bleeding: Long-term follow-up
UMBERTO VILLASANTA *and* HAROLD RUBEL 813

Turner's Phenotype with Menstruation, XO Karyotype and Germ Cells in the Ovary: Report of a case ARTURO ZÁRATE, J. A. GARCIA-REYES, LUIS CATELAZO-AYALA, RODOLFO ESTEVEZ, *and* JORGE SILVA 818

Culdoscopy in Infertility EMMET J. LAMB, A. MAYNARD GUDERIAN, *and* AUREA L. CRUZ 822

Hepatic Rupture During Pregnancy MEL G. DODSON *and* JAMES A. O'LEARY 827

CONTENTS

Response Evoked by Sound in the Fetal Guinea Pig
JOSEPH J. SCIBETTA *and* MORTIMER G. ROSEN 830

Methotrexate and the Abdominal Placenta
PAUL C. WEINBERG *and* CARL J. PAUERSTEIN 837

The Incarcerated Gravid Uterus
JOHN M. GIBBONS, JR. *and* WINSTON B. PALEY 842

Direct Antiglobulin Test in ABO Hemolytic Disease of the Newborn
AARON A. ALTER, FELIX FELDMAN, JOSHUA TWERSKY, EDWARD DE VOS, DAVID L. PRUTTING, ANGELICA MIOTTI, *and* DAVID E. BRYAN 846

Conservative and Surgical Management of Bladder Injuries Following Pelvic Operations
BENEDICT R. HARROW 852

Pelvic Pneumoperitoneum in the Evaluation of Precocious Puberty
PAUL A. MC DONOUGH *and* CAESAR A. DE LEO 856

Instrument & Method: Gellhorn Pessary Modified to Facilitate Removal
GEORGE A. WILLIAMS 860

Editorial: Optimal Maternal Care
BEN M. PECKHAM 862

Letters 869

Book Reviews 871

Indexes

Authors 873

Subjects and Titles 879